

Experiment Number: 078462

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,3,4,5-Tetrachlorophenol

CAS Number: 4901-51-3

Date Report Requested: 09/11/2018

Time Report Requested: 00:56:07

NTP Study Number:

078462

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	121 ± 4.6	110 ± 11.6	148 ± 5.8	130 ± 15.1	109 ± 4.2
0.1	117 ± 4.2	102 ± 5.1	119 ± 3.3	132 ± 9.5	114 ± 8.5
0.3	99 ± 4.9	98 ± 4.3	126 ± 6.8	114 ± 8.4	110 ± 9.2
1.0	100 ± 8.3	97 ± 2.6	112 ± 1.5	128 ± 14.3	112 ± 8.8
3.0	103 ± 5.5	85 ± 4.4	137 ± 4.8	140 ± 7.5	129 ± 6.0
10.0	81 ± 6.4	67 ± 1.5	120 ± 18.0	106 ± 4.9	116 ± 9.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					901 ± 23.4
Positive Control ³	469 ± 3.5	299 ± 19.1			
Positive Control ⁴			579 ± 33.4	278 ± 3.2	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	148 ± 10.7
0.1	147 ± 6.6
0.3	117 ± 8.0
1.0	147 ± 7.5
3.0	123 ± 9.9
10.0	147 ± 7.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	625 ± 19.0

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 0.7	18 ± 2.0	9 ± 2.3	13 ± 0.9	16 ± 3.2
0.1	13 ± 0.9	10 ± 2.0	13 ± 2.5	11 ± 2.3	10 ± 1.8
0.3	17 ± 0.0	12 ± 2.8	12 ± 0.0	9 ± 0.7	9 ± 0.9
1.0	17 ± 2.0	11 ± 0.7	6 ± 0.3	10 ± 0.3	9 ± 1.5
3.0	17 ± 2.3	10 ± 2.3	7 ± 1.9	11 ± 2.2	11 ± 0.9
10.0	12 ± 0.9	6 ± 2.0	7 ± 1.0	7 ± 1.5	9 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	511 ± 9.3	262 ± 28.9			
Positive Control ⁴					283 ± 14.8
Positive Control ⁵			192 ± 3.3	91 ± 4.8	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 0.7
0.1	11 ± 2.2
0.3	11 ± 1.0
1.0	12 ± 1.8
3.0	11 ± 2.6
10.0	15 ± 1.2
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	456 ± 19.1

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	156 ± 10.7	191 ± 2.8	177 ± 14.8	195 ± 3.3	161 ± 12.9
0.1	151 ± 7.8	171 ± 7.1	188 ± 8.1	208 ± 0.9	164 ± 2.0
0.3	151 ± 10.3	179 ± 7.5	190 ± 9.1	192 ± 6.9	176 ± 16.4
1.0	145 ± 12.0	170 ± 17.1	177 ± 12.0	191 ± 14.6	185 ± 6.4
3.0	141 ± 7.1	164 ± 5.5	177 ± 6.8	206 ± 6.3	168 ± 4.5
10.0	78 ± 11.4	64 ± 7.3	99 ± 1.5	183 ± 20.2	78 ± 15.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					666 ± 16.7
Positive Control ⁴			464 ± 25.0		
Positive Control ⁵				451 ± 8.4	
Positive Control ⁶	1033 ± 71.9	499 ± 20.6			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	157 ± 13.9
0.1	180 ± 14.7
0.3	165 ± 18.6
1.0	160 ± 23.7
3.0	164 ± 26.1
10.0	146 ± 29.3
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	461 ± 30.1
Positive Control ⁵	
Positive Control ⁶	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 1.2	23 ± 2.6	34 ± 1.5	18 ± 0.3	34 ± 1.2
0.1	20 ± 3.6	16 ± 1.8	31 ± 2.3	21 ± 3.4	28 ± 1.5
0.3	25 ± 1.0	16 ± 1.5	24 ± 4.9	17 ± 2.0	34 ± 2.0
1.0	19 ± 1.5	16 ± 2.4	24 ± 1.8	18 ± 0.9	27 ± 1.5
3.0	21 ± 1.7	17 ± 2.1	29 ± 2.6	19 ± 0.7	34 ± 2.0
10.0	19 ± 0.9	14 ± 1.2	22 ± 1.2	15 ± 3.1	29 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					606 ± 11.9
Positive Control ⁴			398 ± 17.1	147 ± 6.8	
Positive Control ⁷	704 ± 28.4	544 ± 30.1			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	26 ± 0.6
0.1	26 ± 0.3
0.3	16 ± 3.3
1.0	19 ± 0.3
3.0	19 ± 2.7
10.0	21 ± 1.2
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	453 ± 10.5
Positive Control ⁷	

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LEGEND

Values given as Mean or Mean \pm Standard Error Mean

The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations

CAS Number = Chemical Abstracts Service registry number

1: Vehicle Control: Dimethyl Sulfoxide

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****